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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/647,115	08/25/2003	Fujio Akahane	Q77135	9845	
23373	7590 03/21/20	5	EXAM	INER	
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			CRANE, D	CRANE, DANIEL C	
SUITE 800			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20037			3725		

DATE MAILED: 03/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

SN

		Application No.	Applicant(s)			
Office Action Summary		10/647,115	AKAHANE ET AL			
		Examiner	Art Unit			
		Daniel C Crane	3725			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Re	esponsive to communication(s) filed on 2	25 February 2005.				
2a) Th	is action is FINAL . 2b)⊠	This action is non-final.				
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition	of Claims					
 4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) 16 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application	Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice of 3) Informati	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-94) On Disclosure Statement(s) (PTO-1449 or PTO/So)	B/08) Paper 5) Notice	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PT	O-152)		

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BASIS FOR REJECTIONS

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

REJECTION OF CLAIMS OVER PRIOR ART

Claims 1-5, 7-9, 11-12 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Soga (6,490,790). See Figures 2A-2D where the first punch 1, 2 is operated to perform the first forging work in Figure 2B and a second punch 6_1 , 7_1 , 6_2 , 7_2 is operated to perform a second forging work while the first forming punch is held at its maximum stroke. The second punch forms at least two perforations. Since the first member is pressed and the second member is perforated, the first member has a "higher minuteness" than the second member. The perforations, the second member, function as openings or positioning members when the work piece is assembled into operable condition (see Figure 1A where the connecting rod is provided with openings for the crankshaft and the piston pin).

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Claims 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Soga (6,490,790). Soga does not indicate the sizing or particular material. It is maintained that the skilled artisan within the manufacturing arts would have recognized the adaptability of Soga's teaching to any material without deviating from the basic process steps. Furthermore, the skilled artisan would have also recognized that the pitch, or distance would be dictated based upon specific use. Clearly, the skilled artisan would have realized that the sizing of Soga's product would be met depending upon the size of the overall shape of the product.

Claims 1-11 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Okunishi (4,126,492). See Figures 1 and 2 where the first punch 33, 52, 58 forms a first forging work on the plate W and a second punch 32 forms a second forging work on the plate W while the first punch is positioned at its maximum stroke. As to claims 6 and 10, the first forging work includes a first work by punch 33 and a second work 22, 36 for finishing the plate W. With reference to claim 11, the angled portion at 35 establishes the recesses.

WITHDRAWAL OF NONELECTED CLAIMS

Claim 16 stands withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Election was made without traverse in the reply filed on February 25, 2005.

PRIOR ART CITED BY EXAMINER

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The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

RESPONSE BY APPLICANT(S)

Applicant(s) response to be fully responsive and to provide for a clear record must

specifically point out how the language of the claims patentably distinguishes them from the

references, both those references applied in the objections and rejections and those references

cited in view of the state of the art in accordance with 37 CFR 1.111 (a), (b) and (c).

INQUIRIES

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Examiner D. Crane whose telephone number is (571) 272-4516.

The examiner's office hours are 6:30AM-5:00PM, Tuesday through Friday. The examiner's

supervisor, Mr. Derris Banks, can be reached at (571) 272-4419.

Documents related to the instant application may be submitted directly to Group 3700 by

facsimile transmission at all times. Applicant(s) is(are) reminded to clearly mark any

transmission as "DRAFT" if it is not to be considered as an official response. The Group 3725

Facsimile Center number is (703) 872-9306.

DCCrane

March 15, 2005

Primary Patent Examiner

Group Art Unit 3725